

Technical Data Sheet

Eastman™ Turbo Oil 274

Application/Uses

- Aviation

Key Attributes

- 7.55 cSt synthetic lubricant
- Good high temperature performance and load carrying

Product Description

Eastman™ Turbo Oil 274 is now being used by over 50 airlines throughout the world. This represents nearly two-thirds of the world's commercial requirement for 7.5 centistoke turbo oils. This fact is proof of this product's outstanding performance in today's engines and accessories.

Eastman™ Turbo Oil 274 is a DEF STAN 91-98 oil in the 7.5 cSt viscosity class, uniquely suited for older turboprop applications, such as the R-R Dart.

The popularity of Eastman™ Turbo Oil 274 is largely due to its good high temperature performance and load-carrying ability. These provide long trouble-free performance under severe conditions

Synthetic oils of this type are not all identical. The advantages of Eastman™ Turbo Oil 274 are achieved only by careful selection and balance of base stocks and additives to provide the desired performance.

Typical Properties

| Property | Test Method | Typical Value, Units |
|--|-------------------|---------------------------|
| Density @ 15°C | ASTM D 1298 | 0.9516 kg/L |
| Viscosity, Kinematic | | |
| @ 100°C | ASTM D 445 | 7.6 mm ² /s |
| @ 40°C | ASTM D 445 | 33.3 mm ² /s |
| @ -40°C after 35 minutes | ASTM D 2532 | 11,000 mm ² /s |
| Pour Point | ASTM D 97 | -59°C |
| Flash Point | ASTM D 92 | 235°C |
| Total Acid Number | SAE ARP5088 | 0.24 mg KOH/g |
| Nitrile elastomer swell 192 hrs @ 150°C | FED-STD-791, 3604 | 23.2% vol |
| Silicone elastomer swell 192 hrs @ 100°C | FED-STD-791, 3604 | 6.7% vol |
| Foaming Volume | | |
| Sequence 1 @ 24°C | ASTM D 892 | 5/0 ml/vol |
| Sequence 2 @ 93 °C | ASTM D 892 | 20/0 ml/vol |
| Sequence 3 @ 24°C | ASTM D 892 | 10/0 ml/vol |

IAE gear test

| | | |
|----------|--------|---------------------|
| 2000 rpm | IP 166 | 101.4% of reference |
| 6000 rpm | IP 166 | 106.3% of reference |

Corrosion & Oxidative Stability ^a

| | | |
|---------------------------|-------------|--------------------------|
| Viscosity change @ 37.8°C | ASTM D 4636 | 13.5 |
| Total Acid Number | ASTM D 4636 | -1.38 mg KOH/g |
| Copper Weight Change | ASTM D 4636 | -1.50 mg/cm ² |
| Magnesium Weight Change | ASTM D 4636 | 0.00 mg/cm ² |
| Aluminium Weight Change | ASTM D 4636 | 0.00 mg/cm ² |
| Iron Weight Change | ASTM D 4636 | 0.02 mg/cm ² |
| Silver Weight Change | ASTM D 4636 | 0.03 mg/cm ² |

^a 72 hrs @ 175°C; ASTM D4636, Alternate Procedure 2

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